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APPROVED	O.G. FIG.
BY	CLASS/SUBCLASS
DRAFTSMAN	

underlined = deleted in targeting construct

[] = sequence flanking Neo insert in targeting construct

[AGGCTGTCCCACCCACCATCTGCACCCGCTGCAGCGCCCGCGCCCTGTCCCAGCGCCGT
 AGTCGTCATTTGTAGCCCGCCTGCCGCTCCCGGGGACCCGATCCTACCCTGGGTGCGGGG
 CAGAGCGGGCATGGCCCGTCTGGGGACCGCCTGCCCTGCGCTGGCGCTGGCCCTGGCACT
 TGTGGCGGTGGCCCTGGCTGGAGTCAGAGCCCAGGGCGCAGCCTTCGAGGAGCCTGACTA
 TTACAGCCAGGAGCTCTGGCGGGCGCGGGCGCTATTATGGGCATCCGGAGCCTGAGCCGGA
 GCCGGAGCTCTTCTCGCCCTCAATGCA] TGAAGACCTTAGGGTGGAGGAGCAGGAACAGC
AGGAGCCGACCCAGCAGGGCCACAGAACTCCCAAGAAGGCCATCAAGCCCAAGAAGGCTC
CCAA [GAGGGAGAACTTAGTTGCAGAGACGCTCCACCAG] GTAAAAATAGCAACAGAAA
 AGGCAGAAGAAGCAAGAATCTTGAGAAAGCTGCCAGTGATGACCATGGTGTCCCTGTGGC
 TCATGAGGATGTGAGAGAGTTGCCACCTCTTGGTCTGGAAACATTAAAAATCACAGA
 CTTCCAGCTGCATGCCTCCACATCGAAGCGTTATGGCTGGGAGCCACCGGGGGAGACT
 CAACATCCAGGCAGGCATTAATGAAAATGACTTTTACGATGGGGCTTGGTGTGCTGGTAG
 GAACGACTTGCATCAGTGGATCGAAGTGGATGCCCGGCGCCTGACCAAGTTCACAGGGGT
 CATTACCCAAGGAAGGAAGCTCTCTCTGGCTGAGTGACTGGGTGACATCCTATAAAGTCAT
 GGTGAGCAATGACAGCCACACATGGGTACTGTGAAGAATGGATCTGGCGACATGATATT
 TGAAGGAAACAGTGAGAAGGAGATTCTGTGCTCAATGAGCTGCCAGTCCCCATGGTGGC
 CCGCTACATTTCGCATAAAACCTCAGTCCTGGTTTGATAACGGGAGCATCTGCATGAGGAT
 GGAGATCTTGGGCTGCCCCTGCGGATCCTAATAACTATTATCACCGACGTAATGAGAT
 GACCACCACGGATGACCTGGATTTTAAGCACCACAACATAAGGAAATGCGCCAGTTGAT
 GAAGGTTGTCAATGAAATGTGCCCCAATATTACCAGGATTTACAACATTGGCAAAAGCCA
 CCAGGGCCTGAAATTGTATGCGGTAGAGATCTCTGACCATCCTGGGGAACATGAAGTTGG
 TGAGCCCGAGTTCCACTACATCGCAGGGGCCCACGGCAATGAGGTTCTGGGACGAGAACT
 GCTGCTGCTGCTGCTGCACTTCCCTCTGCCAGGAATACTCGGCGCAGAACGCACGCATCCT
 CCGCTTGGTGGAGGAGACTCGAATCCACATTCTACCCTCCCTCAATCCTGATGGCTATGA
 GAAGGCCTATGAAGGAGGTTCCGAGTTGGGAGGCTGGTCCCTGGGACGTTGGACCCATGA
 TGGCATCGATATCAACAACAACCTTTCCGGATTTAAACTCGCTGCTCTGGGAGGCAGAGGA
 CCAGCAGAATGCCCCAAGGAAGGTCCCCAACCACTACATTGCCATCCCTGAGTGGTTTCT
 GTCTGAGAATGCCACAGTGGCCACAGAGACCAGAGCCGTCATCGCTGGATGGAGAAGAT
 CCCGTTTGTGCTGGGAGGCAACCTACAGGGGGGTGAGCTGGTCTGTCATACCCCTATGA
 CATGGTGCCTGCTTCTGTGGAAGACCCAGGAGCACACCCCAACACCTGATGATCATGTGTT
 CCGCTGGCTGGCGTATTCTACGCTCCACTACCGCCTCATGACAGATGCCAGGAGGCG
 AGTGTGCCACACGGAAGATTTTCAGAAGGAGGAGGGCACCGTCAATGGGGCTTCTGGCA
 CACAGTGGCTGGAAGTCTAAACGATTTTCAGCTACCTCCATACAACTGCTTTGAGCTGTC
 CATCTACGTGGGCTGTGATAAATACCCACACGAGAGCGAGCTGCCGGAGGAATGGGAGAA
 TAACCGGAGTCTCTGATTGTGTTCATGGAGCAGGTTTCATCGAGGCATCAAAGGCATAGT
 GAGAGATTTACAAGGGAAAGGGATTTCAAATGCTGTCTCTGTGGAAGGTGTTAAACCA
 TGACATCCGGACAGCCAGCGATGGGGATTACTGGCGTCTACTGAACCTGGCGAATATGT
 GGTCACAGCCAAGGCGGAAGGCTTTATCACTTCCACCAAGAAGTGCATGGTTGGCTATGA
 TATGGGAGCTACTCGGTGTGACTTACCCCTCACAAAGACCAACCTGGCTAGGATAAGAGA
 AATTATGGAGACATTTGGGAAGCAGCCTGTGACCTACCTCCAGGCGCCTGAAGCTGCG
 GGGACGGAAGGCGGCAGCGTGGGTGACCCTGTGCGGACACTTGAGACATACCCAGACC
 GTGCAAAATAAAAAATCCACTCCAGTAGTAAAAAAA (SEQ ID NO:1)

FIGURE 2A

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APPROVED O.G. FIG.	CLASS/SUBCLASS
BY	DRAFTSMAN

Gene Sequence Structure

*

327 bp

Sequence Deleted

422 bp

Size of full-length
cDNA: 2490 bp

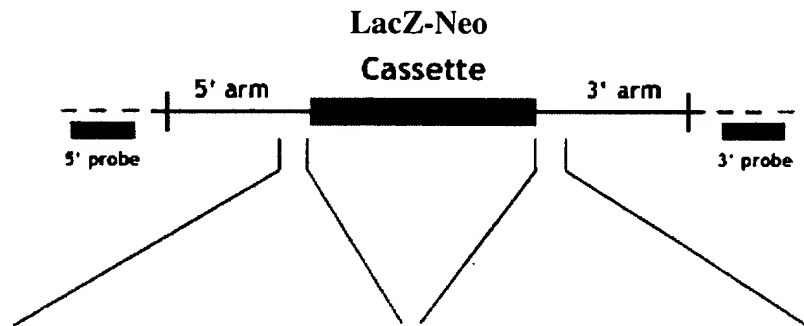

Targeting Vector*
 (genomic sequence)

Construct Number: 2825

Arm Length:

5': 4 kb

3': 1.5 kb



———— Targeting Vector
 - - - - Endogenous Locus

* Not drawn to scale

5' >GGCATGGCCCGTCTGGGGACC
 GCCTGCCCCGCGCTGGCGCTGGCC
 CTGGCACTTGTGGCGGTGGCCCTG
 GCTGGAGTCAGAGCCCAGGGCGCA
 GCC'TTCGAGGAGCCTGACTATTAC
 AGCCAGGAGCTCTGGCGGCGCGGG
 CGCTATTATGGGCATCCGGAGCCT
 GAGCCGGAGCCGGAGCTCTTCTCG
 CCTTCAATGCA<3'
 (SEQ ID NO:3)

5' >GAGGGAGAAGTTAGTTGCAGA
 GACGCCCTCCACCAGGTAACTTTGT
 CATCGGGCAGCCCGAGGGGGCGCC
 AGCGATCGTGGCACTCCAGGGGAC
 ACCTGGCTTCCAGTATGTTTCTT
 GAGTGAGCCCAGCCAAAGTCCTGT
 GGTGCCTGTGTTATTCCCTAGAGA
 CTACATCTGAGCTAAGTTCAGCTT
 TCTCTCCCTGC<3'
 (SEQ ID NO:4)

FIGURE 2B

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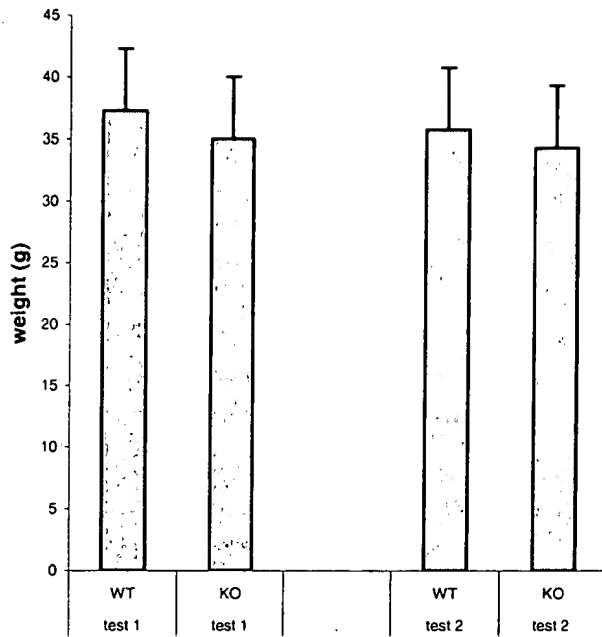


FIGURE 3

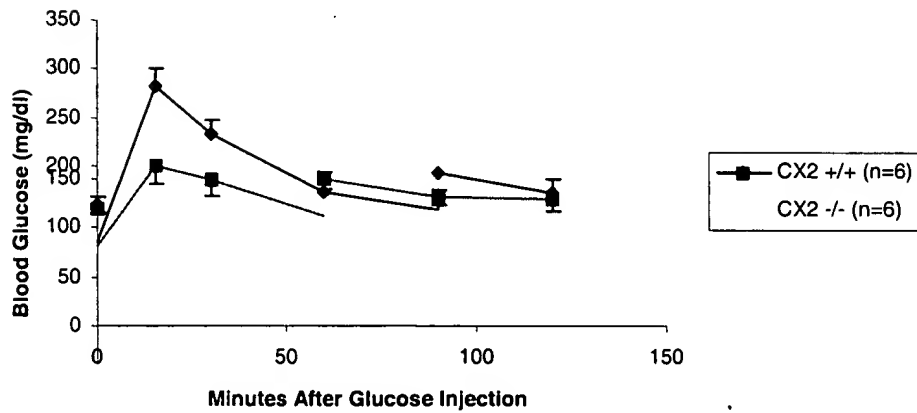


FIGURE 4